Air Defense Solutions

Multi-layer, integrated and effective low altitude air defense

Elbit Systems™ Land

Air Defense Solutions

Multi-layer, integrated and effective low altitude air defense

Armies and terror organizations worldwide target strategic sites, national borders, urban centers and maneuvering military forces. Airstrikes are the most common attack scenario, specifically carried out by low-level platforms cruising at up to 15,000 ft such as combat aircraft, helicopters, UAVs and drones, which pose a significant challenge for most air defense systems.

Elbit Systems Land's air defense concept is based on detecting, identifying, and defeating the threats, providing a complete defensive umbrella against low-level air attacks. The adaptive solutions are designed to intercept various threats on civilian or military targets using hard kill and soft kill methods.

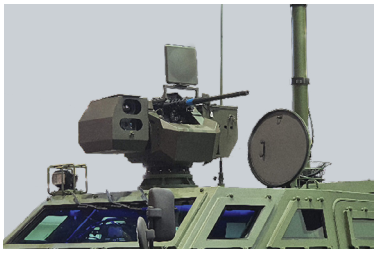
Typical Threats

Modernized Air Defense Gun Systems

The most effective low altitude point defense solution

Elbit Systems offers upgrade programs for existing air defense guns such as the Super Vulcan, Oerlikon 35mm, L70, ZU-23 and others, based on Elbit Systems' advanced and modern remote-controlled weapon systems technology. The solutions provide highly effective air defense capabilities against low-level air and ground targets, delivering improved accuracy and hit probability and enhanced operational flexibility.

The fully digital systems feature an electrical drive system, day/night camera, target acquisition and automatic target tracker, fire envelope calculation, anti-drone jamming capabilities, and multi-function display. The modernized systems integrate with GBAD C^2 and air defense radar systems and SIGINT detector, delivering a real-time aerial situational picture with near zero false alarms.



Birds of Prey: An armed multi-mission drone for close target monitoring using wireless communication at a range of up to 10km. The system can carry various sniper and assault rifles and a 40mm grenade launcher armed with lethal or non-lethal ammunition, capable of engaging with hostile drones and other targets while minimizing collateral damage.

Anti-drone RCWS: Based on an existing standard weapon station, the anti-drone system is remotely operated through a gunner station. The high accuracy tracking system is capable of directional jamming at 3-4km and uses a "smart shooting" method at up to 3km.

Main characteristics:

- Electrical drive system with day/night cameras
- Target acquisition and automatic target tracker (ATT)
- Firing envelope calculation
- Improved hit probability
- Gunner electrical handles with multi-function display
- Integrates with GBAD C^2 and air defense radar systems

Air Defense Products

Red Sky – VSHORAD Missile Launcher

Integrated hard kill and soft kill capabilities

A combat proven, very short range air defense (VSHORAD) solution, the Red Sky 2 system is highly effective against a wide range of air threats. The solution is designed to detect, identify and intercept threats using hard kill and soft kill effectors.

The Red Sky 2 drone defender system incorporates multiple sensors, radar, E/O day and night cameras and SIGINT detector, delivering a real-time aerial situational picture with near zero false alarms. The missile launcher is compatible with various VSHORAD IR-homing fire-and-forget missiles including the GROM, Stinger, Mistral, and IGLA missile series. The system features a wide band high-power directional RF jammer providing effective blocking of RF communication and GNSS frequencies.

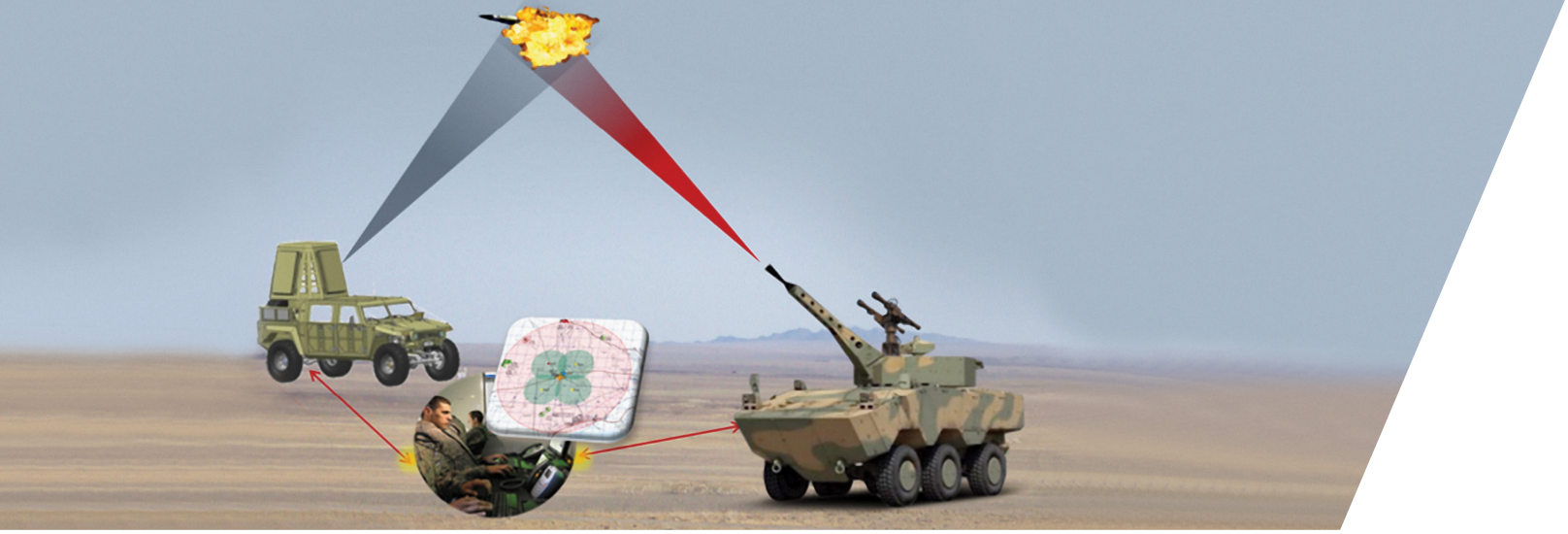
Main characteristics:

- IR tracking range: Up to 15km (target and weather dependent)
- Engagement: Up to 7km (missile type dependent)
- Carriage capability: 2/4 missiles ready to fire
- Automatic firing envelope calculations
- Maximized missile range
- Improved hit probability
- Optimized engagement process

Grom Family

Stinger/Mistral Family

IGLA Family



TORC30-Advanced Air Defense Turret

High mobility and multiple aerial defense effectors

Featuring multiple sensors and effectors, the Torc30 advanced air defense turret can integrate with 30mm/35mm guns, VSHORAD IR-homing fire-and-forget missiles and anti-drone devices. The solution provides highly effective air defense capabilities against low-level air and ground targets, delivering improved accuracy, hit probability, and enhanced operational flexibility.

Torc30 can be equipped with ABM ammunition that explodes in mid-air according to target range, sending out multiple sub-projectiles to greatly increase hit and kill probability.

Main characteristics:

- Multiple sensors - radar, E/O day and night camera, SIGINT detector
- Multiple effectors with hard kill and soft kill capabilities
- Firing envelope calculation
- Integrates with GBAD C^2 and air defense radar systems
- Stabilized system allows high-precision shots on-the-move
- Crew protected in armored vehicle

Air Defense Solutions

Multi-layer, integrated and effective low altitude air defense

Key Benefits

- Combat proven
- Cost-effective
- All-in-one integrated solution
- Modular, scalable and customizable
- User-friendly system
- Multi-mission/ scenarios
- Operational flexibility
- Rapid deployment
- 24/7, all-weather operation
- Single operator
- Minimal collateral damage

Key Features

- Soft and hard kill configurations
- Multi-sensor – radar, E/O and SIGINT
- Missile launcher and air defense guns
- Firing envelope calculation
- Optimized engagement process
- Improved hit probability
- Stabilized for high precision
- Integrates with GBAD C^2 and radar system

Elbit Systems™ Land

Elbit Systems Land
E-mail: land@elbitsystems.com www.elbitsystems.com

Follow us on

The logo brand, product, service, and process names appearing herein are the trademarks or service marks of Elbit Systems Ltd., its affiliated companies or, where applicable, of other respective holders.
All information in this document is for general information only, and is subject for change without notice. © 2022. This brochure contains Elbit Systems and others proprietary information. EP22-MKT-067